EG&G ER Program
Rocky Flats Plant

(02/23/90)

ER PROGRAM DATA ASSESSMENT SUMMARY REPORT FORM

Batch No. 8910L304 **Site** Area 2 - 881 Hillside

Laboratory Roy F. Weston - Lionville **No. of Samples/Matrix** 3/Water

SOW # 7/87 **Reviewer Org.** TechLaw, Inc.

Sample Numbers G01871089003, G43871089003, G52871089003

Data Assessment Summary

		ICP	AA	Hg	CN	Comments
1.	Holding Times	V	V	V	N/A	
2.	Calibrations	A	V	V	N/A	Action Item 1
3.	Blanks	A	A	V	N/A	Action Items 2-7
4.	ICP Interference Check Sample	V	N/A	N/A	N/A	
5.	Lab Control Sample Results	V	V	V	N/A	
6.	Duplicate Sample Results	A	V	V	N/A	Action Item 8
7.	Matrix Spike Sample Results	V	A	V	N/A	Action Item 9
8.	Method of Standard Addition	N/A	V	N/A	N/A	
9.	Serial Dilution	A	N/A	N/A	N/A	Action Item 10
10.	Sample Verification	V	V	V	N/A	
11.	Other QC	V	V	V	N/A	
12.	Overall Assessment	A	A	V	N/A	Data valid, or acceptable with qualifications

V = Data had no problems.
A = Data acceptable but qualified due to problems.
R = Data rejected.
X = Problems, but do not affect data.

N/A = Not applicable.

Data Quality: Data contained in this batch were reviewed and found to be valid, or acceptable with qualifications. Acceptable, qualified data may be used provided that individual values impacted by the "Action Items" listed below are appropriately flagged. (Refer to attached Results Summary Tables).

ADMIN RECORD

"REVIEWED FOR CLASSIFICATION
By R. B. Hoffman (4)
7/11/95

REVIEWED FOR CLASSIFICATION/UCN
By George H. Setlock
7/12/95

A-OU01-000071

L304/eg06j

Action Items: 1) The Cadmium value for G52871089003 is estimated (J) because the CRI recovery criteria was not met.

2) All Chromium values are estimated and undetected (UJ) because Chromium values >IDL were found in the blanks.

3) The Copper and Cobalt values for G01871089003 are estimated and undetected (UJ) because analyte values >IDL were found in the blanks.

4) All Potassium values are estimated and undetected (UJ) because Potassium values >IDL were found in the blanks.

5) The Antimony value for G43871089003 is estimated and undetected (UJ) because Antimony values >IDL were found in the blanks.

6) The Antimony values for G01871089003 and G52871089003 are rejected (R) because of negative bias indicated in the blanks.

7) The Selenium values for G01871089003 and G52871089003 are estimated and undetected (UJ) because Selenium values >IDL were found in the blanks.

8) All Zinc values are estimated (J) because the duplicate precision was outside control limits.

9) The Thallium non-detects for G43871089003 and G52871089003 are estimated and undetected (UJ) because the post-digestion matrix spike recoveries were outside control limits.

10) All Calcium, Magnesium, and Sodium values are estimated (J) because the ICP serial dilution criteria were not met.

Comments: None

Note: Data Summary Tables are attached.

Wayne A Rome — 3/5/90

Reviewer Signature — Date

TABLE #: 8910L304

SITE NAME: Area 2 – 881 Hillside

CLP WATER INORGANIC ANALYSIS: Low Water

ANALYTICAL RESULTS (ug/L)

Sample Location																	
Sample Number			G01871089003		G43871089003		G52871089003										
Sample Date			10/27/89		10/26/89		10/27/89										
Remarks																	
Inorganic Analyte		DL ug/L		DQ		DQ		DQ									
Aluminum	Al	200	118	V	176	V	388	V									
Antimony	Sb	60	22.0 U	R	36.5 UJ	A	22.0 U	R									
Arsenic	As	10	2.0 U	V	2.0 U	V	2.0 U	V									
Barium	Ba	200	158	V	76.9	V	138	V									
Beryllium	Be	5	1.0 U	V	1.0 U	V	1.0 U	V									
Cadmium	Cd	5	3.0 U	V	3.0 U	V	3.3 J	A									
Calcium	Ca	5000	84100 J	A	169000 J	A	117000 J	A									
Cesium	Cs	1000	2500 U	V	2500 U	V	2500 U	V									
Chromium	Cr	10	3.6 UJ	A	5.2 UJ	A	10.6 UJ	A									
Cobalt	Co	50	7.6 UJ	A	4.0 U	V	4.0 U	V									
Copper	Cu	25	10.7 UJ	A	43.7	V	48.2	V									
Iron	Fe	100	1890	V	62.1	V	160	V									
Lead	Pb	5	3.0 U	V	3.0 U	V	3.0 U	V									
Lithium	Li	100	100 U	V	100 U	V	100 U	V									
Magnesium	Mg	5000	21800 J	A	39500 J	A	31500 J	A									
Manganese	Mn	15	707	V	170	V	192	V									
Mercury	Hg	0.2	0.28	V	0.20 U	V	0.20 U	V									
Molybdenum	Mo	200	100 U	V	100 U	V	100 U	V									
Nickel	Ni	40	17.2	V	40.8	V	20.4	V									
Potassium	K	5000	2770 UJ	A	2170 UJ	A	859 UJ	A									
Selenium	Se	5	3.9 UJ	A	52.0	V	2.5 UJ	A									
Silver	Ag	10	3.0 U	V	3.0 U	V	3.0 U	V									
Sodium	Na	5000	70500 J	A	184000 J	A	203000 J	A									
Strontium	Sr	200	518	V	1310	V	755	V									
Thallium	Tl	10	4.0 U	V	4.0 UJ	A	4.0 UJ	A									
Tin	Sn	200	100 U	V	100 U	V	100 U	V									
Vanadium	V	50	5.0 U	V	5.0 U	V	5.0 U	V									
Zinc	Zn	20	87.5 J	A	113 J	A	288 J	A									
Cyanide		10	N/R		N/R		N/R										

E Estimated by the Laboratory
U Indicates the compound was not detected above the Instrument Quantitation Limit
J Quantitation is approximate due to limitations identified during the quality control review
DL Detection Limit in Micrograms per Liter (ug/L)
N/R Not reported

DQ Data Qualifier
V Valid
A Acceptable with qualifications
R Rejected

L304/eg06]